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1 [A system for interactive viewing of structured documents](#)

Ian H. Witten, Bob Bramwell

 March 1985 **Communications of the ACM**, Volume 28 Issue 3

 Full text available: [pdf\(1.00 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An existing typesetting system is tied by bridging software to an existing page-presentation program to effect both hard (typeset) copy and interactive browsing. The typesetting system formats documents for a variety of output devices, and the "browsing" feature appears to the user as simply another output device that happens to be interactive.

2 [Open architecture multimedia documents](#)

Brian R. Gaines, Mildred L. G. Shaw

 September 1993 **Proceedings of the first ACM international conference on Multimedia**

 Full text available: [pdf\(265.04 KB\)](#)
[ps\(630.84 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: digital journals, electronic books, hypermedia, knowledge bases, multimedia information systems, publication systems

3 [Personal distributed computing: the Alto and Ethernet software](#)

Butler Lampson

 January 1986 **Proceedings of the ACM Conference on The history of personal workstations**

 Full text available: [pdf\(3.00 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The personal distributed computing system based on the Alto and the Ethernet was a major effort to make computers help people to think and communicate. The paper describes the complex and diverse collection of software that was built to pursue this goal, ranging from operating systems, programming environments, and communications software to printing and file servers, user interfaces, and applications such as editors, illustrators, and mail systems.

4 [Optimizing document format: Two diet plans for fat PDF](#)

Thomas A. Phelps, Robert Wilensky

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available:  [pdf\(198.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


As Adobe's Portable Document Format has exploded in popularity so too has the number PDF generators, and predictably the quality of generated PDF varies considerably. This paper surveys a range of PDF optimizations for space, and reports the results of a tool that can postprocess existing PDFs to reduce file sizes by 20 to 70% for large classes of PDFs. (Further reduction can often be obtained by recoding images to lower resolutions or with newer compression methods such as JBIG2 or JPEG2000, bu ...

Keywords: PDF, compact PDF, compression, multivalent

5 [Coupling application design and user interface design](#)

Dennis J. M. J. de Baar, James D. Foley, Kevin E. Mullet

June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available:  [pdf\(898.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Building an interactive application involves the design of both a data model and a graphical user interface (GUI) to present that model to the user. These two design activities are typically approached as separate tasks and are frequently undertaken by different individuals or groups. Our approach eliminated redundant specification work by generating an interface directly from the data model itself. An inference engine using style rules for selecting and placing GUI controls (i.e., widgets) ...

Keywords: automatic user interface design, data models, user interface software

6 [Translating among processable multi-media document formats using ODA](#)

Jonathan Rosenberg, Mark S. Sherman, Ann Marks, Frank Giufreda

January 2000 **Proceedings of the ACM conference on Document processing systems**

Full text available:  [pdf\(730.38 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 [The design of Star's records processing: data processing for the noncomputer professional](#)

Robert Purvy, Jerry Farrell, Paul Klose

January 1983 **ACM Transactions on Information Systems (TOIS)**, Volume 1 Issue 1

Full text available:  [pdf\(2.45 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 [Interactive posters: internet: The effects of font type and size on the legibility and reading time of online text by older adults](#)

Michael Bernard, Chia Hui Liao, Melissa Mills

March 2001 **CHI '01 extended abstracts on Human factors in computing systems**

Full text available:  [pdf\(162.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This study examined passages containing two serif and sans serif fonts at 12 and 14-point sizes for differences in legibility, reading time, and general preference when read by an older population. A significant main effect of size was found for font legibility in that 14-point fonts were more legible to read than 12-point fonts. A marginal interaction was also found

for reading time in that participants read 12-point serif fonts significantly slower than 14-point serif or sans serif fonts. More ...

Keywords: World Wide Web, font size, font type, legibility, older adults, online typography, reading time

9 Document image understanding

Sargur N. Srihari

November 1986 **Proceedings of 1986 ACM Fall joint computer conference**

Full text available:  pdf(1.38 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



10 Beyond formatting and fonts: Changing academic needs for computer-assisted document composition

Joel J. Mambretti

November 1982 **Proceedings of the 10th annual ACM SIGUCCS conference on User services**

Full text available:  pdf(516.66 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)



In the last ten years, major trends in academic computing have included a number of particularly interesting changes: 1) increases in CPU capacity, 2) increases in baud rates, 3) the substitution of terminals for card readers, 4) the shift from batch to interactive systems, and 5) the development of computerized text processing. The development of academic text processing has been substantial in several areas of application. This paper will present an overview of the past, present, and poss ...

11 New microcomputer graphics routines designed for undergraduate teaching

Derek Peacock, Paul Manning, Martin Lee

June 1986 **ACM SIGCSE Bulletin**, Volume 18 Issue 2

Full text available:  pdf(756.32 KB) Additional Information: [full citation](#), [index terms](#)



12 Optical scanning at the University of Missouri - ST. Louis

Elmer C. Smith

November 1977 **Proceedings of the 5th annual ACM SIGUCCS conference on User services**

Full text available:  pdf(1.35 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)




Optical Scanning began on the University of Missouri - St. Louis (UMSL) campus in 1971 with the installation of an OpScan 100 optical reader at the Campus Computer Center. Having started as an exam scoring service in an operational capacity, optical scanning has since developed into a self sufficient section within the Computer Center with a programming and operations staff of its own. This paper is a description of the existing Optical Scanning system and the services it provides to the ca ...

13 Generation of formatters for context-free languages

Mark van den Brand, Eelco Visser

January 1996 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 5 Issue 1

Full text available:  pdf(2.33 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



Good documentation is important for the production of reusable and maintainable software. For the production of accurate documentation it is necessary that the original program text

is not copied manually to obtain a typeset version. Apart from being tedious, this will invariably introduce errors. The production of tools that support the production of legible and accurate documentation is a software engineering challenge in itself. We present an algebraic approach to the generation of tools ...

Keywords: document preparation, program generators

14 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  pdf(9.17 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



15 Analysis of a biologically motivated neural network for character recognition

M. D. Garris, R. A. Wilkinson, C. L. Wilson

May 1991 **Proceedings of the conference on Analysis of neural network applications**

Full text available:  pdf(1.56 MB) Additional Information: [full citation](#), [references](#), [index terms](#)



16 Hypermedia Templates: an author's tool

Karen Smith Catlin, L. Nancy Garrett

September 1991 **Proceedings of the third annual ACM conference on Hypertext**

Full text available:  pdf(936.43 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: hypermedia design principles, hypermedia templates, intermedia

17 Reading text from computer screens

Carol Bergfeld Mills, Linda J. Weldon

December 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 4

Full text available:  pdf(3.33 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper reviews empirical studies concerning the readability of text from computer screens. The review focuses on the form and physical attributes of complex, realistic displays of text material. Most studies comparing paper and computer screen readability show that screens are less readable than paper. There are many factors that could affect the readability of computer screens. The factors explored in this review are the features of characters, the formatting of the screen, the contrast ...



18 Extracting mathematical expressions from postscript documents

Michael Yang, Richard Fateman

July 2004 **Proceedings of the 2004 international symposium on Symbolic and algebraic computation**

Full text available:  pdf(137.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Full-text indexing of documents containing mathematics cannot be considered a complete success unless the mathematics symbolism is extracted and represented in a standardized form permitting both searching for formulas, and re-use of this information in (for example) computer algebra systems. Most documents produced in the past and subsequently digitally encoded, and even most of those potentially "born digital" in current journal production are-



--at best---encoded in a printer form such as Adob ...

Keywords: digital library, document image analysis, mathematics, optical character recognition, postscript documents

19 Document formatting: Creating reusable well-structured PDF as a sequence of component object graphic (COG) elements



Steven R. Bagley, David F. Brailsford, Matthew R. B. Hardy

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available:  pdf(458.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Portable Document Format (PDF) is a page-oriented, graphically rich format based on PostScript semantics and it is also the format interpreted by the Adobe Acrobat viewers. Although each of the pages in a PDF document is an independent graphic object this property does not necessarily extend to the components (headings, diagrams, paragraphs etc.) within a page. This, in turn, makes the manipulation and extraction of graphic objects on a PDF page into a very difficult and uncertain process. The wo ...


Keywords: PDF, form Xobjects, graphic objects, tagged PDF

20 Concepts of the text editor Lara



J. Gutknecht

September 1985 **Communications of the ACM**, Volume 28 Issue 9

Full text available:  pdf(1.60 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Lara, a text editor developed for the Lilith workstation, exemplifies the principles underlying modern text-editor design: a high degree of interactivity, an internal data structure that mirrors currently displayed text, and extensive use of bitmap controlled displays and facilities.

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